

### **ABSTRACT OF THE DISCLOSURE**

A method and apparatus for monitoring for Red Fail faults in a traffic signal control system. Traffic control signals generated by a traffic control unit are grouped into channels. Certain channels are specified for Red Fail testing in which all lights in a given channel are inactive at the same time. Channels which are not specified are not subject to Red Fail testing, but other conflict testing can still be performed on these unselected channels.